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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/731,220	12/06/2000	Ulrike Reeh	12406-003002 9214		
7:	590 11/21/2002				
WILLIAM E. BOOTH			EXAMINER		
Fish & Richard 225 Franklin St	treet		JACKSON JE	R, JEROME	
Boston, MA 0	2110-2804		ART UNIT PAPER NUMBER 2815		
			DATE MAILED: 11/21/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

l l	Application No.	Applicant(s)	V			
	09/731,220	REEH ET AL.	P			
Office Action Summary	Examiner	Art Unit				
·	Jerome Jackson Jr.	2815				
The MAILING DATE of this communication app		=	ss			
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)☐ Responsive to communication(s) filed on	<u> </u>					
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-33</u> is/are pending in the application	1.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-12,14-24 and 27-33</u> is/are rejected.						
7)⊠ Claim(s) <u>13,25 and 26</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>06 December 2000</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)☐ Some * c)☐ None of:						
 Certified copies of the priority documents 	s have been received.					
2.⊠ Certified copies of the priority documents	s have been received in App	lication No. <u><i>09/221,789</i></u> .				
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14)☐ Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C. § 1	l 19(e) (to a provisional a	oplication).			
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>3</u> 	5) Notice of Info	nmary (PTO-413) Paper No(s). rmal Patent Application (PTO-1				

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

Claims 1-12,24,30-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stevenson '974 with Tadatsu '609, and Abe '230.

As stated previously, Stevenson teaches a GaN blue light emitter with phosphors to enable emission at other wavelengths. Tadatsu also shows resin encapsulation with fluor centers to re-emit light at a different wavelength. Abe particularly teaches emission of multiple wavelengths with phosphor conversion to enable white light emission.

Together with Stevenson the applied references suggest encapsulation of the blue/violet emitter and phosphor material to easily enable and package the white light emitter. Claims 1-12,24,30-33 are obvious structure.

Claims 1-12,14-17,20-23,28-33, are rejected under 35 U.S.C. 103(a) as being unpatentable over Stevenson with Tadatsu, Abe, and further in view of Tokailin '214.

Tokailin teaches phosphorescence conversion of short wavelength light emitted from a solid state emitter into longer wavelengths to produce a variety of colors and white light. Tokailin suggests the organic fluorescent centers for producing a wide

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variety of colors and white light for solid state emitters as Stevenson with Tadatsu and Abe. Together the references suggest a solid state emitter resin encapsulated with organic fluor centers to absorb blue/violet light and reemit a variety of colors and white light. Claims 14-17,20-23,28,29, are obvious structure.

Claims 1-12,14-24,27-33, are rejected under 35 U.S.C. 103(a) as being unpatentable over Stevenson with Tadatsu, Abe, Tokailin, and further in view of Mita,Chao, Robbins, and Sato.

Inorganic fluor centers for wavelength conversion are known and suggested by the above applied art because they proveide excellent luminescence for displays, etc.

Claims 18.19.24.27 are obvious structure.

Claims 13,25,26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Jackson Jr. whose telephone number is 703 308 4937. The examiner can normally be reached on t-th 9-5. The fax phone numbers for the organization where this application or proceeding is assigned are 703 308 7722 for regular communications and 703 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308 0956.

JEROME JACKSON PRIMARY EXAMINER